BLUE STAR
Power Systems

Diesel Product Line

208-600 Volt

VD600-04FT4

60 Hz / 1800 RPM

600 kWe / 570 kWe

Standby / Prime

Ratings

	208V	240V	480V	600V
Phase	3	3	3	3
PF	0.8	0.8	0.8	0.8
Hz	60	60	60	60
Generator Model	S6L1D-C	S6L1D-C	HCI534F	HCI534F
Connection	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby kWe	600	600	600	600
AMPS	2084	1806	903	723
Temp Rise	105˚C / 40˚C	105˚C / 40˚C	105˚C / 40˚C	105˚C / 40˚C
Prime kWe	570	570	570	570
AMPS	1980	1716	858	686
Temp Rise	105˚C / 40˚C	105˚C / 40˚C	105˚C / 40˚C	105˚C / 40˚C

Standard Equipment

Engine

- Radiator Cooled Unit Mounted (55˚C)
- Radiator Duct Flange (OPU Only)
- Blower Fan & Fan Drive
- Starter & Alternator
- Oil Pump & Filter
- Oil Drain Extension w/Valve
- Governor - Electronic Isochronous
- 24V Battery System & Cables
- Air Cleaner (Dry Single Stage)
- SRC Catalyst / Silencer Mounted
- Flexible Fuel Connector
- EPA Certified Tier 4 Final / EU Stage 5 Certified

Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 0.50% Voltage Regulation
- 4 Pole, Rotating Field
- 105˚C Standby Temperature Rise
- 105˚C Prime Temperature Rise
- 100% of Rated Load - One Step
- 5% Maximum Harmonic Content
- NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise

Additional

- Single Source Supplier
- UL 2200 & cUL Listed
- CSA Certified
- Seismic Certified to IBC 2021
- NFPA 110 / CSA C282 Compliant
- Microprocessor Based Digital Control Panel Mounted in NEMA 12 Enclosure
- Base - Structural Steel
- Main Line Circuit Breaker Mounted & Wired
- Battery Charger 24V 5 Amp
- Jacket Water Heater -20˚F 5000W 240V w/Isolation Valves
- Vibration Isolation Mounts
- 2 Year / 2000 Hour Standby Warranty
- 1 Year / 1500 Hour Prime Warranty
- Standard Colors - White / Gray

Application Data

Engine

Manufacturer:	Volvo Penta	Displacement - Cu. In. (lit):	984 (16.12)
Model:	TWD1683GE	Bore - in. (cm) x Stroke - in. (cm):	5.67 (14.4) x 6.50 (16.5)
Type:	4-Cycle	Compression Ratio:	16.8:1
Aspiration:	Turbo Charged, H_2O to Air CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	932 (695)

Exhaust System	Standby	Prime
Gas Temp. (Stack): °F (°C)	862 (461)	810 (432)
Gas Volume at Stack Temp: CFM (m^3/min)	3,991 (113)	3,673 (104)
Maximum Allowable Exhaust Restriction (Post Catalyst): in. H_2O (kPa)	40.0 (10.0)	40.0 (10.0)
Cooling System		
Ambient Capacity of Radiator: °F (°C)	131 (55.0)	131 (55.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H_2O (kPa)	0.50 (0.12)	0.50 (0.12)
Water Pump Flow Rate: GPM (lit/min)	122 (462)	122 (462)
Heat Rejection to Coolant: BTUM (kW)	12,397 (217)	12,170 (213)
Heat Rejection to CAC: BTUM (kW)	9,497 (166)	9,099 (159)
Heat Radiated to Ambient: BTUM (kW)	11,948 (209)	11,366 (199)
Air Requirements		
Aspirating: CFM (m^3/min)	1,801 (51.0)	1,695 (48.0)
Air Flow Required for Rad. Cooled Unit: CFM (m^3/min)	26,926 (762)	26,926 (762)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m^3/min)	Consult Factory For Remote Cooled Applications	
Fuel Consumption		
At 100% of Power Rating: gal/hr (lit/hr)	39.6 (150)	37.8 (143)
At 75% of Power Rating: gal/hr (lit/hr)	29.9 (113)	28.5 (108)
At 50% of Power Rating: gal/hr (lit/hr)	21.6 (81.6)	20.6 (77.8)
DEF Consumption (% of fuel consumption)	± 6.00%	± 6.00%
Fluids Capacity		
Total Oil System: gal (lit)	12.7 (48.0)	12.7 (48.0)
Engine Jacket Water Capacity: gal (lit)	6.60 (25.0)	6.60 (25.0)
System Coolant Capacity: gal (lit)	23.8 (90.1)	23.8 (90.1)
DEF Tank Capacity: gal (lit)	52.8 (200.0)	52.8 (200.0)

Deration Factors: Rated Power is available up to 4,921 Ft (1500m) at ambient temperatures to 122°F (50°C).
Consult factory for site conditions above these parameters.

Diesel Product Line

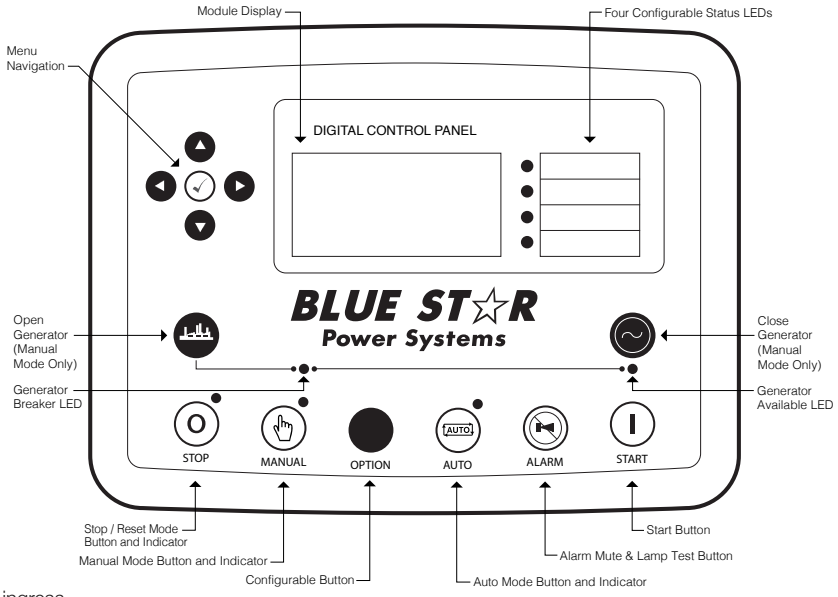
600 kWe / 570 kWe

BLUE STAR Power Systems

DCP7310 Control Panel

Standard Features

- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to DSE2548 Remote Annunciator
- 8 Programmable Contact Inputs
- 10 Contact Outputs
- RS485 Communicator Interface
- cULus Listed, CE Approved
- Event Recording
- IP 65 rating (with supplied gasket) offers increased resistance to water ingress
- NFPA 110 Level 1 Compatible

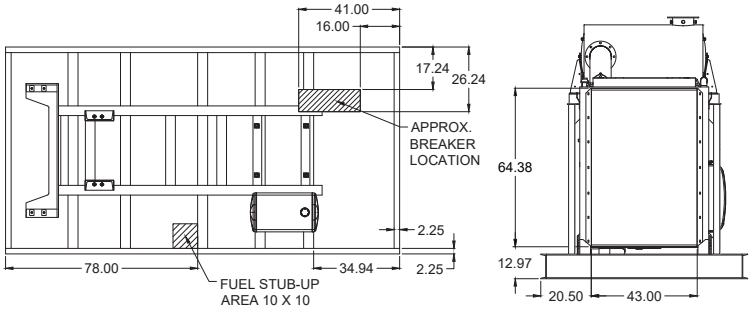


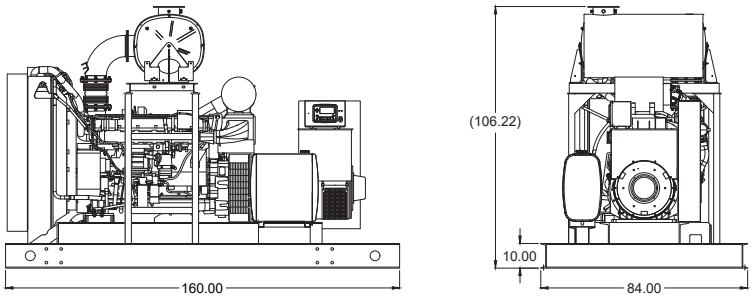
Weights / Dimensions / Sound Data

	L x W x H	Weight lbs
OPU	160 x 84 x 118 in	13,425
Level 1	198 x 84 x 122 in	15,325
Level 2	198 x 84 x 122 in	15,400
Level 3	252 x 84 x 122 in	16,050

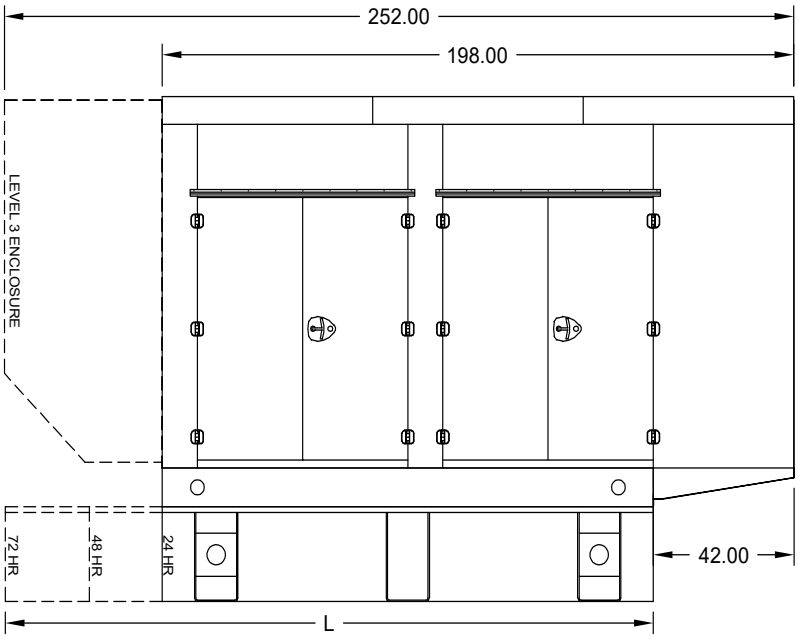
Please allow 6-12 inches for height of exhaust stack.

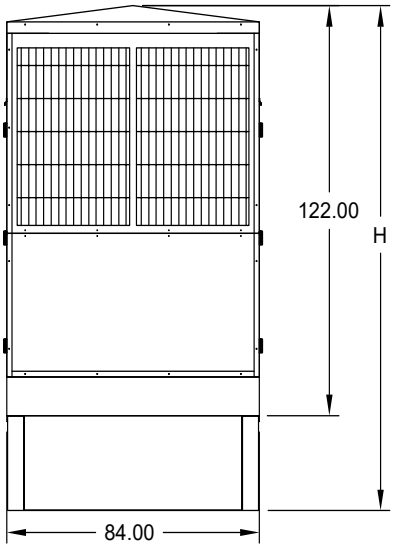
	No Load	Full Load
OPU	91 dBA	94 dBA
Level 1	86 dBA	89 dBA
Level 2	82 dBA	84 dBA
Level 3	74 dBA	76 dBA





Enclosures & Fuel Tanks





- All enclosure models are 200 MPH wind rating certified in accordance with IBC2021 and ASCE/SEI 7-16 standards.
- Level 2 & 3 enclosures include sound attenuation foam
- Level 3 enclosure includes frontal sound & exhaust hood.
- Enclosure height does not include exhaust stack.

	24 Hour 1000 Gallon	48 Hour 2000 Gallon	72 Hour 3000 Gallon
L	168.00	204.00	294.00
H	148.00	158.00	158.00

Notes

- All specification sheet dimensions are represented in inches.
- All drawings based on standard 480 volt standby generator. Lengths may vary with other voltages. All drawings and dimensions subject to change without notice.
- All enclosures and fuel tanks are based on the standard unit configuration. Any requested deviation can change dimensions.
- Sound data is measured at 23 feet (7 meters) in accordance with ISO 8528-10.
- All materials and specifications subject to change without notice.

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